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FOR
SERVICE BULLETINS

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Midmark Dental Products
Service Bulletin: MD100

Subject: ***Bypassing the air pressure switch of Universal Power Supply when air pressure is not available.***

Required Tools: ***Phillips Screwdriver***

If installing the Universal Power Supply in a location where air pressure is not available (ex. dealer showroom), it will be necessary to bypass the air pressure switch to allow operation. The procedure is outlined below:

Bypassing the Air Pressure Switch of Universal Power Supply

WARNING
To prevent the possibility of electrical shock, always disconnect electrical power to the universal power supply before removing cover. Failure to comply with these instructions could result in severe personal injury or death.

(1) Disconnect electrical power to universal power supply.

(2) Remove two screws (1, Figure 1) and cover (2).

(3) Disconnect yellow wire (3) from terminal (A) of air pressure switch (4).

(4) Connect yellow wire (3) to terminal (B) of air pressure switch (4).

(5) Install cover (2) and secure with two screws (1).

(6) Reconnect electrical power to universal power supply.

NOTE
After completing this procedure, the universal power supply will function without air pressure. If the power supply is used with a Midmark delivery unit, the position of the master ON/OFF switch will not affect the power supply (i.e. the light will function with the master ON/OFF switch OFF).

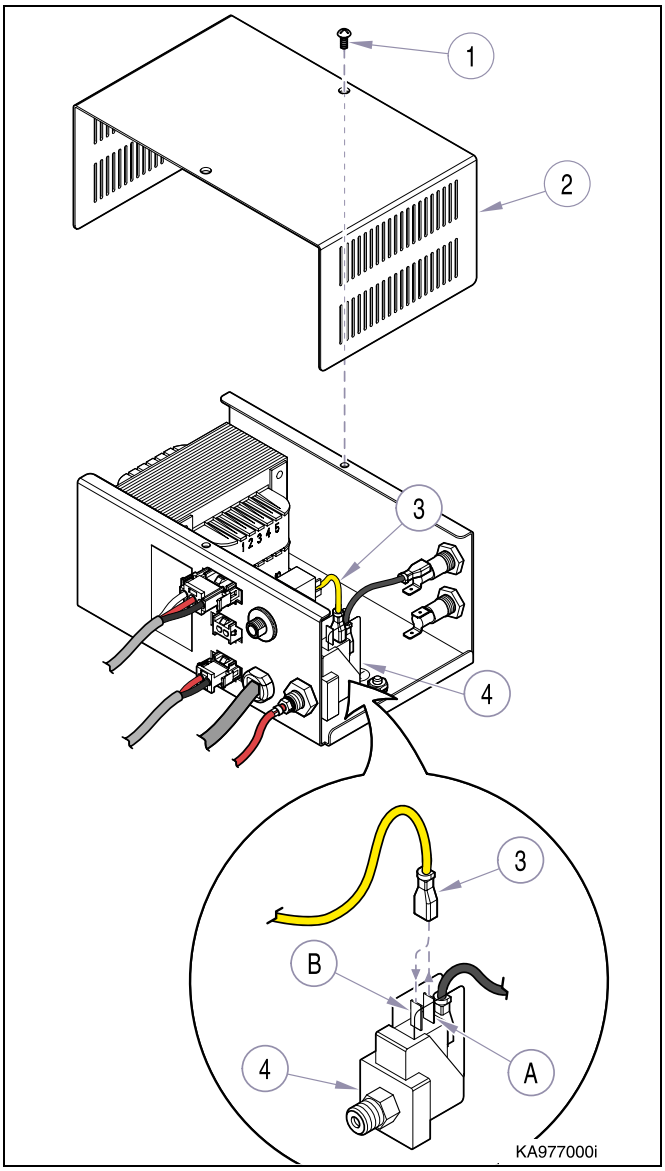

Figure 1. Bypassing Air Pressure Switch of Universal Power Supply

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Dental Products Service Bulletin Number: MD101

Subject: Replacement of Sleeve Bearing with Flange Bearing

Applicable Models: 153592-001, 153592-002, 153592-003

Serial Numbers: NT001000 thru NT001124

IMPORTANT INFORMATION

The existing sleeve bearing can work its way loose and fall out of place over time. The following procedure removes the existing sleeve bearing and replaces it with a flanged sleeve bearing which prevents it from falling out of place.

KIT COMPONENTS

Part Number	Description	Qty.
002-0685-00	Brake Bearing Replacement Kit	1
• 003-1195-00	Installation Instructions	1
• 016-0893-00	Flange Bearing	1

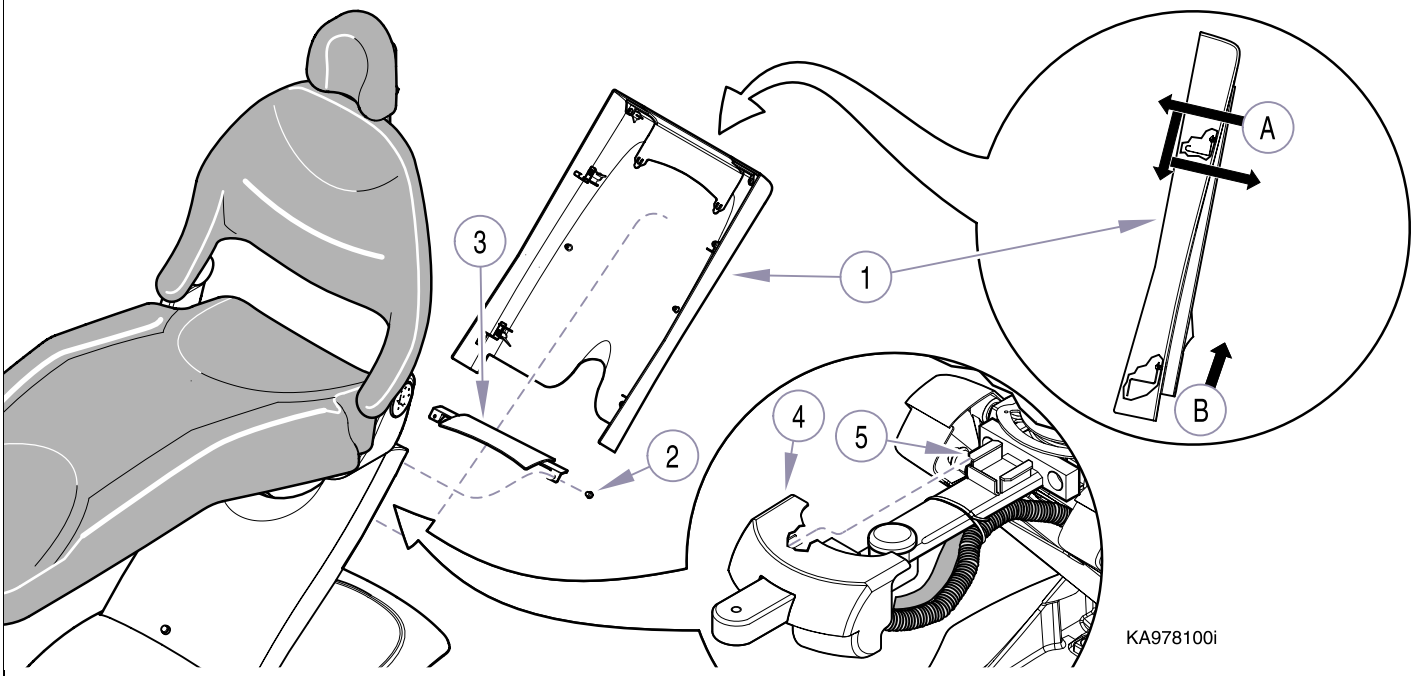
REQUIRED TOOLS

5/32” Allen Wrench

9/16” Wrench

9/16” Socket

COVERS REMOVAL



NOTE

Safety bail cover (1) is attached with hooks. To remove, push cover inward, down, and then outward (A). When top of bail cover is released, pull upward to remove (B).

A. Remove safety bail cover (1).

B. Depending on configuration, remove two screws (2) and end cover (3) ***or*** pull extension plate cover (4) from tabs of extension plate (5).

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EXISTING SLEEVE BEARING REMOVAL

A. Using a 5/32” Allen Wrench, remove screw (1) and handle (2) from spacer nut (3).

B. Using a 9/16” wrench or socket, remove spacer nut (3), lower thrust bearing (4), and rotation stop weldment (5).

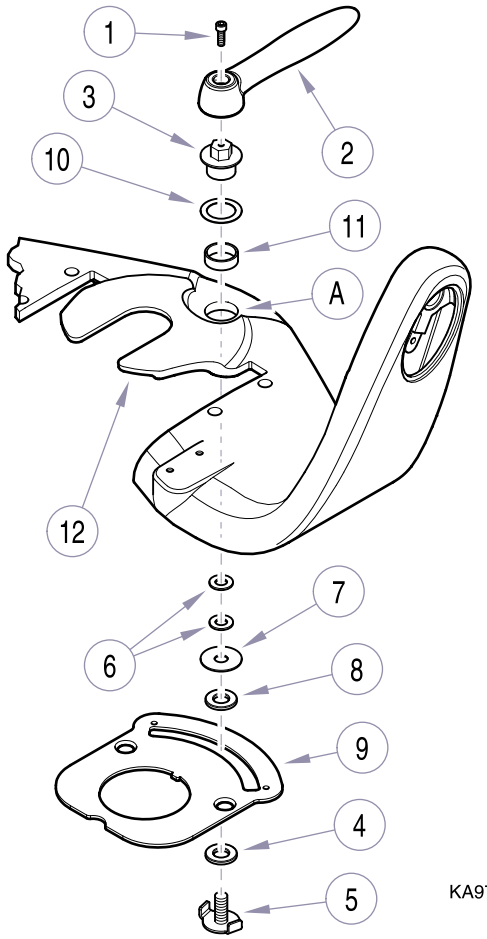
C. Slide two belleville washers (6), flat washer (7), and upper thrust bearing (8) out from top of brake plate (9).

D. Remove adhesive backed nylon brake disk (10) from spacer nut (3). ***Discard*** nylon brake disk.

NOTE

If necessary, use a hammer and punch to drive sleeve bearing (11) out of pivot hole in yoke plate.

E. Remove sleeve bearing (11) from pivot hole (A) in yoke plate (12). ***Discard*** sleeve bearing.



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NEW FLANGE BEARING INSTALLATION

EQUIPMENT ALERT.
Do not hammer directly on top of spacer nut (3) or it may be damaged. Failure to do so could result in handle not fitting on spacer nut correctly.

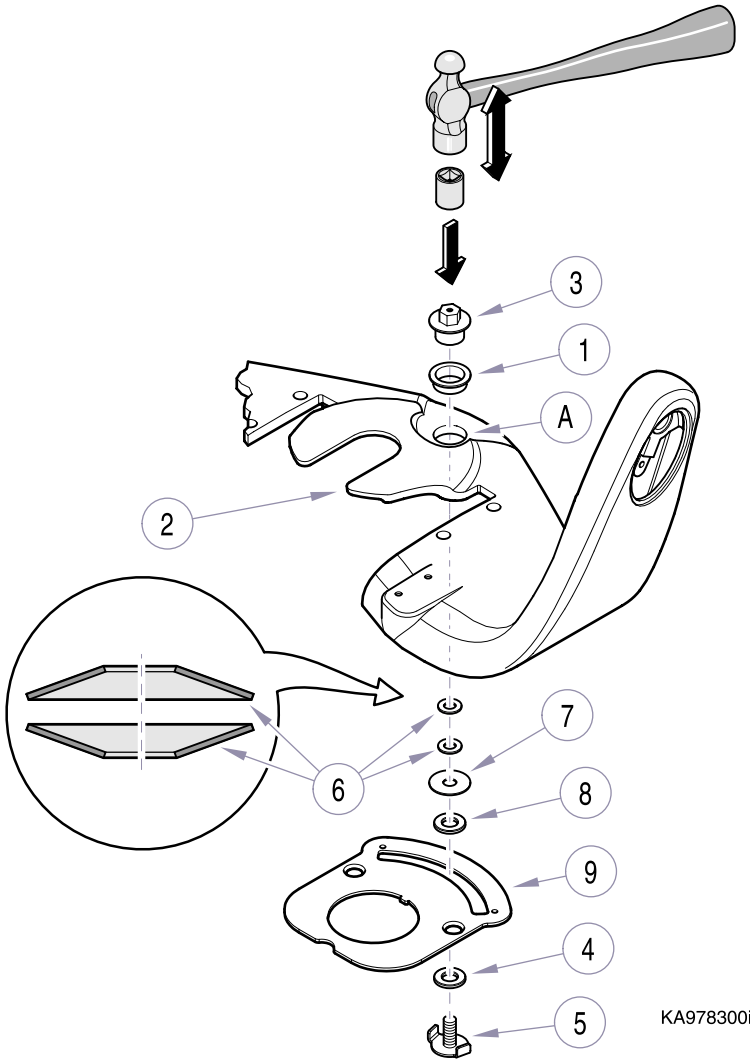
A. Using a 9/16” socket and spacer nut (3) as a drive tool, install new flange bearing (1) in pivot hole (A) of yoke plate (2).

B. Place flat washer (7), upper thrust bearing (8), and belleville washers (6) in position on brake plate (9), making sure belleville washers are installed as shown in illustration. Center them beneath pivot hole (A) in yoke plate (2).

C. Install lower thrust bearing (4) on rotation stop weldment (5).

NOTE
The tabs on the rotation stop weldment (5) must match the radius of the brake plate (9) cut-out in order to fit properly.

D. Hold rotation stop weldment (5) in position on bottom side of brake plate (9) and secure with spacer nut (3). Tighten spacer nut (3) until snug.



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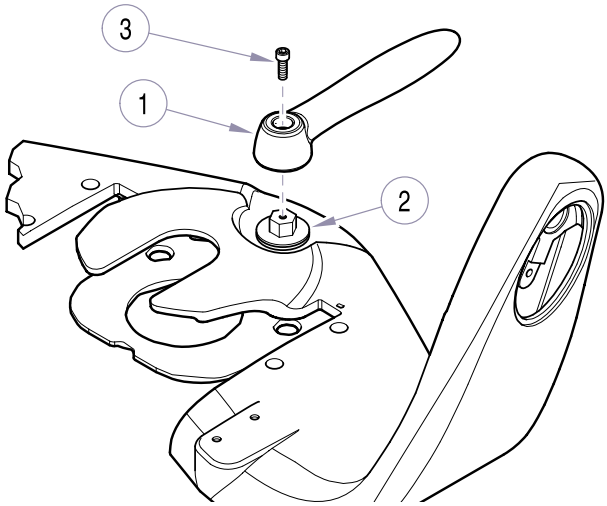
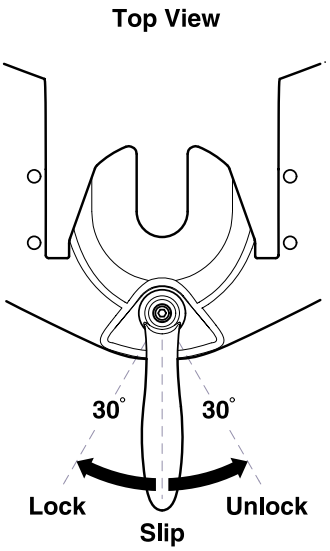
ROTATIONAL BRAKE ADJUSTMENT



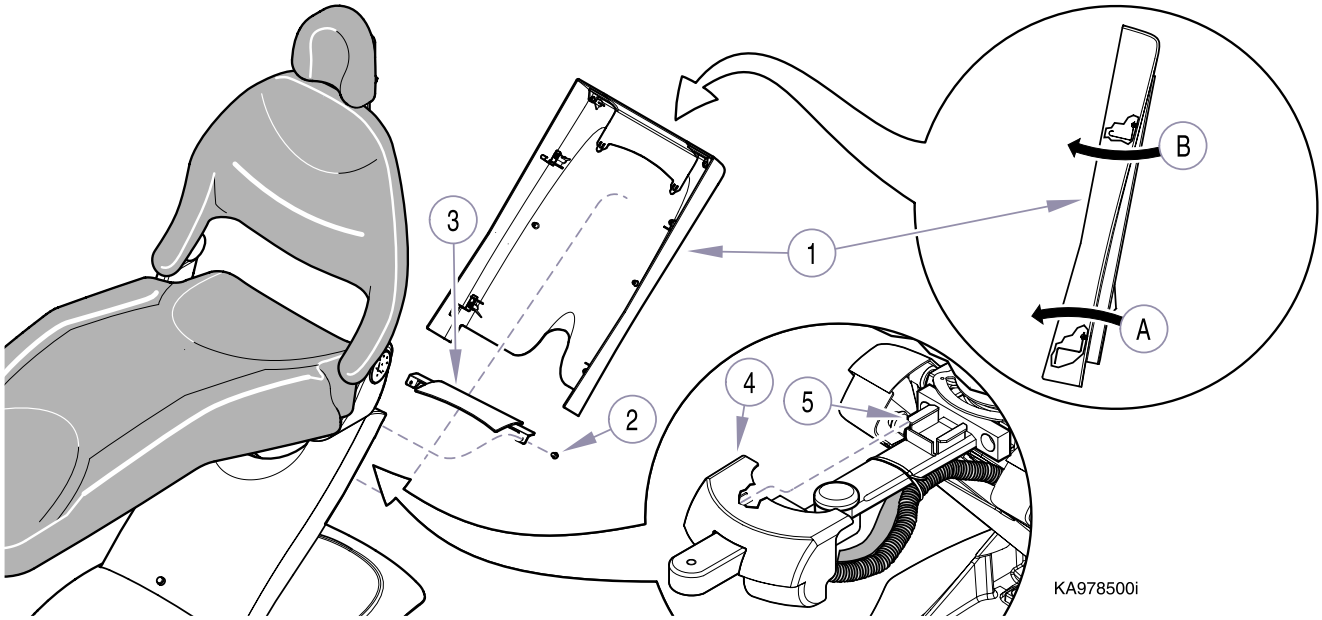


A. Using handle (1), adjust brake spacer nut (2) until a solid brake condition is observed when handle (1) is rotated to **LOCK** position.

B. Install screw (3) to secure handle (1).

C. Check brake operation - Readjust as necessary:
Handle (1) in Center (SLIP position). Chair should rotate, but have resistance against brake.
Handle (1) 30^{o} toward left (LOCK position). Chair should not move when pressure is applied.
Handle (1) 30^{o} toward right (UNLOCK) position. Chair should move freely, approximately 30^{o} in each direction from the centerline of chair.

COVERS INSTALLATION



A. Depending on configuration, install end cover (3) and secure with two screws (2) ***or*** slide extension plate cover (4) on tabs of extension plate (5).

B. Install safety bail cover (1):
1) Hook lower brackets (A) onto lower mounting brackets.
2) Swing cover up and hook top brackets (B) onto top mounting posts.

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